

Supplementary Table 1 Conserved miRNA families that were differentially expressed in two cotton accessions under two different water regimes

Suvin control vs stress				
Small RNA sequence identified in this study	Corresponding conserved miRNA family (obtained from miRBase)	Reads (RPKM)*		Differential expression in fold change#
		Suvin-C	Suvin-WS	
UGAGAUCAUUGUGAAAGCUAAUU	hme-bantam	9.90631	4.80369	34.358 down
UAUCACAGCCAGCUUUGUAUGAGCG	api-miR-2b	8.24759	3.6834	23.656 down
UCAGUCUUUUCUCUCUCCUAU	hme-miR-14	10.75067	4.93494	56.326 down
GCUCUCUAUGCUCUGUCAUCA	stu-miR156d-3p	7.62466	4.86782	6.759 down
GCUCUCUAUGCCUCUGUCAUCA	stu-miR156d-3p	7.74014	3.86782	14.644 down
GCUCUCUAUGCUUCUGUCACCA	stu-miR156d-3p	9.89768	7.95529	3.843 down
UUGGCAGAAGAUAGAGAGCAC	lus-miR156h	8.42874	7.10486	2.503 down
GCUCUCUAGCUUCUGUCAUCACA	aly-miR157b-3p	13.87493	11.58505	4.890 down
AGCUGCUUGGCUAUGGAUCCC	gma-miR159d	9.49913	6.5199	7.885 down
GAGCUGCUGAGCUAUGGAUCCC	gma-miR159d	12.88205	11.63601	2.371 down
GCGUAUGAGGAGCCAAGCAUUAU	stu-miR160a-3p	11.29709	9.8451	2.735 down
UGCCUGGCUCCCUGCAUGCCAA	nta-miR160d	9.39725	4.86782	23.093 down
UGCCUGUCUCCCUGUAUGCCA	cpa-miR160f-5p	8.63038	6.74229	3.701 down
UGCCUGGCUCCCUGUACGCCA	cpa-miR160f-5p	9.10681	5.5199	12.016 down
UGCCUGGCUCCCUGUAUACCA	cpa-miR160f-5p	10.17329	6.74472	10.767 down
UCGCCUGGCUCCCUGUAUGCCA	ppt-miR160i	10.37992	7.45279	7.605 down
UGGAGGCAGCGGUUCAUCGAUC	csi-miR162-5p	10.74014	9.03775	3.254 down
UGCACGUGCUCCCUUCUCCAAC	cpa-miR164e	9.46742	6.61105	7.241 down
CACGUGCUCUCCUUCUCCACCGA	zma-miR164g-3p	12.65505	10.51794	4.398 down
GGAAUGUUGUCUGGCUCGAGGA	stu-miR166a-5p	12.80125	10.52603	4.840 down
GGAAUGUUGUCUGGACCGGGG	bdi-miR166b-5p	11.49913	8.68982	7.009 down
GGAAUGUUGUUUGGCUCGAGG	stu-miR166c-5p	9.59867	5.5199	16.897 down
GGAAUGUUGUUUGGCCCGAGGUC	stu-miR166c-5p	11.28845	7.26312	16.283 down
UCGGACCAGGCUCAAUUCCC	bdi-miR166h-3p	11.43773	9.86567	2.973 down
UCUCGGACCAGGCCUCAUUCCCS	gma-miR166k	11.97557	10.38866	3.004 down

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		Suvin-C	Suvin-WS	
UCUCGGGCCAGGCUUCAUCCCCS	gma-miR166k	10.79575	9.01315	3.440 down
UCUCUGACCAGGCUUCAUCCCCS	gma-miR166k	7.25377	5.52638	3.311 down
GCGGACCAGGCUUCAUCCCCS	lus-miR166k	5.73355	3.96476	3.407 down
UCGGACCAAGCUUCAUCCCCC	lus-miR166k	9.31627	7.63538	3.206 down
UCGGACUAGGCUUCAUCCCCS	lus-miR166k	9.27674	8.10486	2.253 down
UCAGACCAGGCUUCAUCCCCS	lus-miR166k	6.97728	4.98397	3.981 down
UCGGACCGGGCUUCAUCCCCS	lus-miR166k	11.55803	10.30998	2.375 down
UUCGGACCAGGCUUCACUCCCCS	lus-miR166k	12.04166	10.43305	3.049 down
UCGGACCAGGCAUUCAUCCCCS	ppt-miR166m	11.44909	9.97635	2.775 down
UCGGACCAGGCUUCAUCCCCG	ptc-miR166p	10.89145	9.00533	3.696 down
UCGGACCAGGCUCCAUCCCCS	ptc-miR166p	11.33563	10.12476	2.314 down
UGAAGCUGCCAGCAUGAUCUUGA	cpa-miR167c	13.30254	12.07014	2.349 down
UGGAAGCUGCCAGCAUGAUCUGG	nta-miR167c	14.76131	13.62149	2.203 down
UGAAGCUGCCAGCAUGAUCGG	cpa-miR167d	10.66188	8.93551	3.308 down
UGAAGCUGCCAGCAUGAUCUGAG	cpa-miR167d	15.99529	14.31078	3.214 down
UGAAGCUUCCAGCAUGAUCUWG	cpa-miR167d	8.28763	9.45279	2.242 up
GGAUCAUGUGGUAGCUUCACC	stu-miR167d-3p	10.80725	8.18286	6.166 down
AUCAGAUGAAGCUGCCAGCAUGA	gma-miR167i	10.43008	9.42213	2.011 down
GGCAAGUUGUCCUCGGCUACAUI	aly-miR169a-3p	9.648	7.80369	3.590 down
UAGCCAAGAAUGACUUGCCUGC	bdi-miR169d	9.53155	11.93391	5.286 up
UAUUGGCCUGGUUCACUCAGA	stu-miR171c-5p	9.27674	7.5199	3.379 down
AUGAGAAUCUUGAUGAUGCUGCAUC	aau-miR172	7.31471	6.00533	2.478 down
ACAUUCAUUGCUGUCGGUGGGU	hhi-miR-181b	8.0397	9.15323	2.163 up
UGACUAGAUCACACUCAUCCA	hme-miR-279a	11.79459	6.45279	40.554 down
AGAGCUUUCUUCAGUCCACUCU	mtr-miR319d-5p	7.94659	6.67518	2.413 down

## Suvín control vs stress

Small RNA sequence identified in this study	Corresponding conserved miRNA family (obtained from miRBase)	Reads (RPKM)*		Differential expression in fold change#
		Suvín-C	Suvín-WS	
UAAGCUCAGGAGGGAUAGCGCC	cpa-miR390b	16.02649	14.69052	2.524 down
AUCAUGCGAUCCCUUCGAAU	mdm-miR393f	8.49913	10.04346	2.916 up
UCCACAGCUUCCUGAACUG	cpa-miR396	9.15121	8.10486	2.065 down
UCCACAGCUUUCUUCGAACUG	cpa-miR396	10.28763	8.7258	2.952 down
UCAUUGAGUGCAGCGUUGAUGAA	ppe-miR397	12.01996	10.80369	2.323 down
UGUGUUCUCAGGUCACCCCUU	cme-miR398b	10.01371	6.93494	8.448 down
UCUUUCCUACUCCUCCAUUC	pde-miR482a	13.73974	12.37331	2.578 down
UCUUUCCACUCCUCCAUUC	pde-miR482a	10.27674	8.4585	3.526 down
UCUUUCCUACUCCUCCGUUC	pde-miR482a	9.01013	7.96294	2.066 down
UCUUUCCUACUCCUCCAUUC	pde-miR482a	7.63251	6.45996	2.254 down
UCUUUCCUACUCCUCCACUCC	pde-miR482a	8.66363	7.61739	2.065 down
UCUUUCCUACUCCUCCAUCCC	pde-miR482a	10.84457	13.15511	4.960 up
UCCUCCUACUCCUCCAUUC	pde-miR482a	14.37677	12.82767	2.926 down
UGACAGCGAGAGAGACACGU	mes-miR535a	9.15121	7.84183	2.478 down
UGACAACGAGAGAGAUACACGU	mes-miR535a	8.01371	9.3612	2.544 up
UUCAUUGUCUGUUCGACCUGA	mdm-miR858	10.4106	8.39437	4.045 down
UUUCGUUGUCUGUUCGACCUUGA	ath-miR858b	13.79095	11.76369	4.076 down
GUCCUUGGGGUGCAGAUUACCU	lja-miR2111-3p	11.13773	7.45279	12.861 down
ACUUUGAACUGGAUUUGCCGA	ghr-miR2949c	12.90947	11.15326	3.378 down
CCAGUCUUGCAUUUAUCCACUU	api-miR-3027	9.83355	4.80369	32.669 down
UGAGAUCUUGAUAACUCGCCUU	api-miR-3050	9.36789	4.80369	23.656 down
UGAACUGGGUUUGUUGGCUGCU	ghr-miR3476-5p	12.49091	10.91222	2.986 down
UUCAGAAACCAUCCUCCUUC	ghr-miR7505	13.66715	14.90432	2.357 up

\* RPKM: Reads per kilo base per million

# fold change in up or down regulation